SRFS TELEINFRA

High-Power LPDA Antenna Model no.:SRFS- LPDA-A0121

Product Description

The LPDA-A0121 directional log-periodic dipole array (LPDA) is primarily designed for high-power applications. It covers a frequency band of 400 to 6000 MHz with a gain of greater than 8 dBi.

Product Feature

- Wideband frequency 400 to 6000 MH
- VSWR < 2.0:1
- High gain: 8 dBi
- Rugged construction
- Ice resistant

Figure 1: LPDA-A0121-01

Electrical Specifications	
Frequency range	400 – 6000 MHz
VSWR	< 2.0:1
Nominal input impedance	50 Ω
Connector	N-type female
Feed power handling	See graph below
Gain (typical)	8 dBi
E-plane 3 dB beamwidth	50º
H-plane 3 dB beamwidth	60º
Polarization	Linear
Mechanical Specifications	
Dimensions (w x l)	450 mm x 770 mm (incl. bracket)
Material	Aluminium, stainless steel, fibreglass
Total mass	< 10 kg incl. mounting bracket
Mounting method LPDA-A0121 LPDA-A0121-01 LPDA-A0121-02 LPDA-A0121-03	 4 x M8 Bolts Mast mount (60mm) Flange mount Mast mount (Vertical or Horizontal)
Packaging	Transportable bag or crate
MTBF	500,000 h
Environmental Specifications	
Wind survival LPDA-A0121 LPDA-A0121-01 LPDA-A0121-02 LPDA-A0121-03	 160 km/h calculated 160 km/h calculated 240 km/h calculated 160 km/h calculated
Operating Temperature	-30ºC to +65º (no icing)
Storage Temperature	-40ºC to +85º
Corrosion	Designed for MIL-STD-810F MIL1250A

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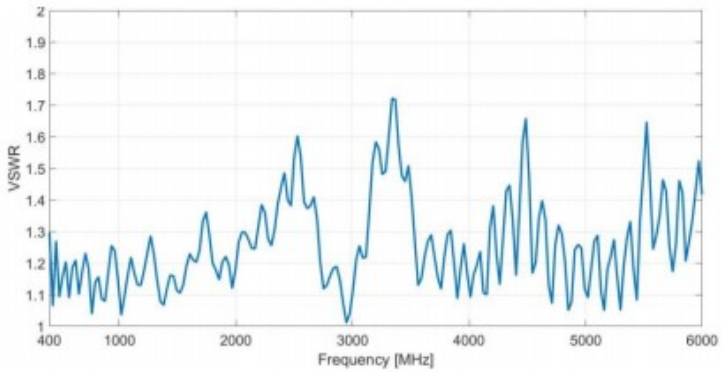
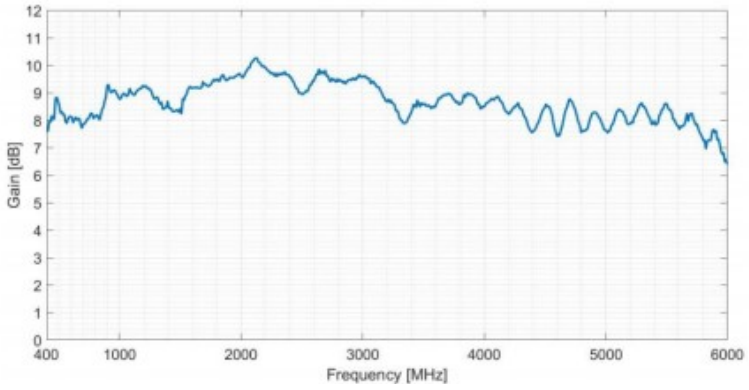
VSWR AND GAIN GRAPHS:

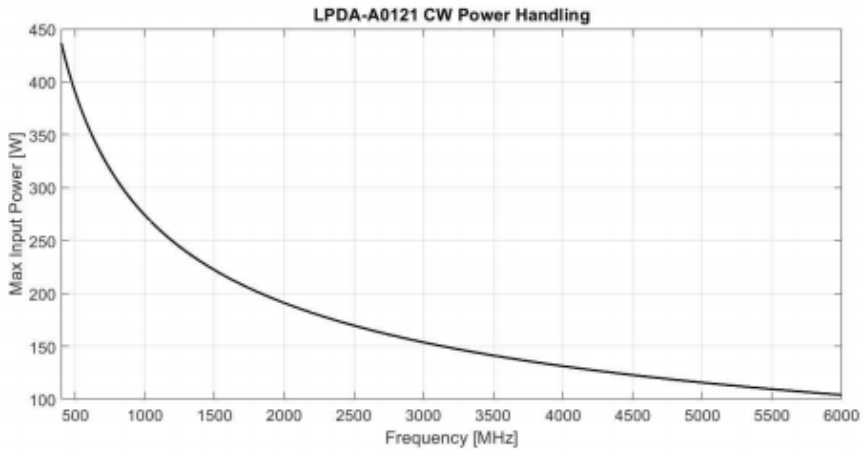
Typical VSWR:



GAIN:



POWER HANDLING:



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RADIATION PATTERNS: